

The Powerload LCAC 12/20 is ideal for data centre commissioning and testing while integrating seamlessly with existing cooling infrastructure. The unit consists of individual rack modules of resistive, AC liquid and air cooled load banks designed for operation indoors to simulate IT rack operation. Our standard layout comprises of 176kW total of Water cooled and Air cooled modules set out in a server rack

- 7x 20kW water cooled modules
- 3x 12kW air cooled load modules
- Controller enables networking up to 200 liquid or air cooled load banks
- Up to 0.1kW resolution (Air cooled) and 1.0kW resolution (Water cooled)
- Ability to fully drain system to avoid cross contamination between jobs
- Steel enclosure, sturdy welded frame, and heavy duty casters for durability and long life
- An integrated power meter displays AC 3-phase voltage and current, power (kW), frequency, and power factor.

User Control System Interface

The Powerload user friendly LCD colour controller integrates both liquid cooled and air-cooled load banks within the same network. It supports TCP/IP Modbus communication, utilising an Ethernet-based wiring infra-structure for seamless connectivity.

The control panel features power on/off functions, master load on/off management, and alarm indicators for low flow, over-temperature, and over-pressure conditions, and control power internal/external switch, as well as a notification for remote mode and quantity (2) Ethernet connections.

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Power Section

Mains Power Isolator with Off position lockable handle

Powerlock connections for mains 400vac power connection

Short circuit power protection for each module

Indicator lamps and Emergency stop button is provided.

Load Bank Hydraulic Arrangement

The LCAC 12/20 liquid cooled load modules have a common internal manifold with user DN80 flow and return connections. The unit is fitted with pressure relief safety valve, manual air vent and manual drain point.

Construction

The LCAC 12/20 is constructed using heavy gauge steel with Powder coated finish. It is designed for continuous indoor operation. Sturdy welded frame and heavy-duty casters are provided for easy mobility, durability, and long life.

Finish

The LCAC 12/20 has a high quality powder coated finish to RAL 7035
Stainless steel impact protection frame



LOAD BANK RATINGS

- 12kW AIR COOLED module comprises of heater steps 0.1KW, 0.2KW, 0.2KW, 0.5KW, 1KW, 2KW, 3KW, 5KW
- 16.7 amps
- 400VAC
- 50hz
- 20kW WATER COOLED module comprises of heater steps 1KW, 2KW, 2KW, 5KW, 5KW, 5KW
- 27.8 amps
- 400VAC
- 50hz

DIMENSIONS

2265mm High x
600mm Wide x
1070mm Deep